

FIG. 2A

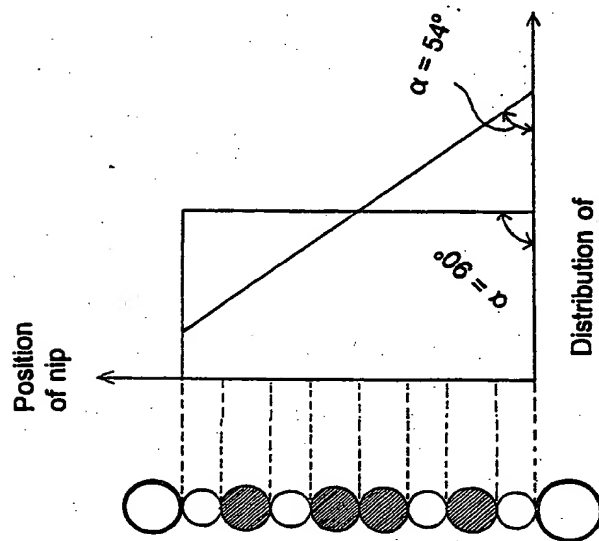


FIG. 2B

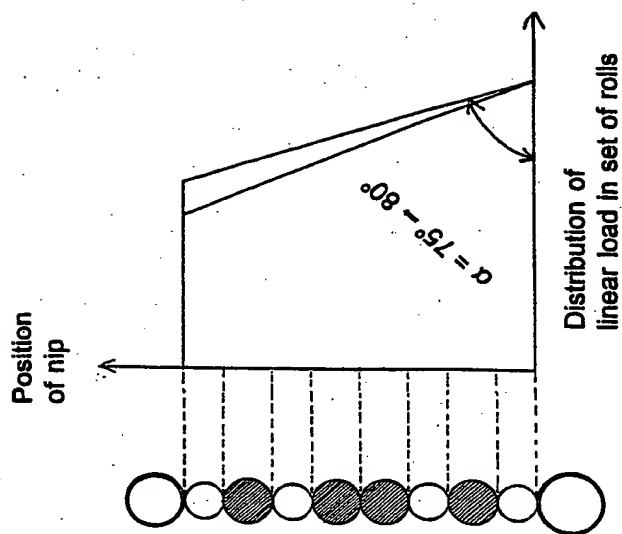


FIG. 2C

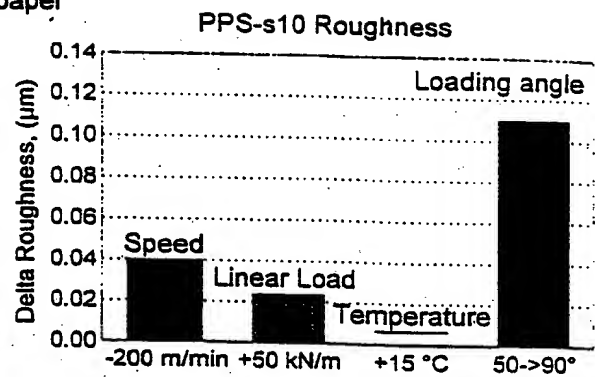
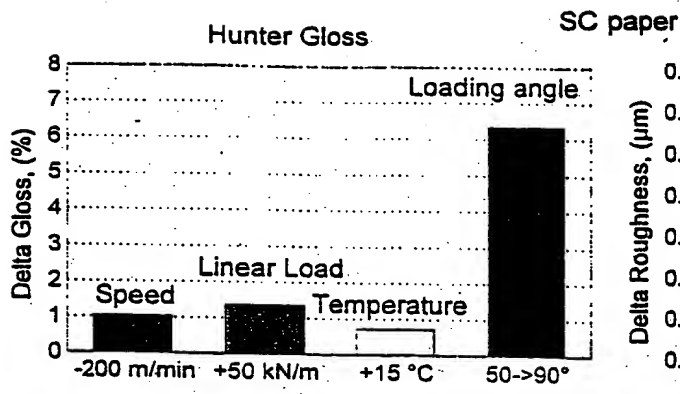


FIG. 3A

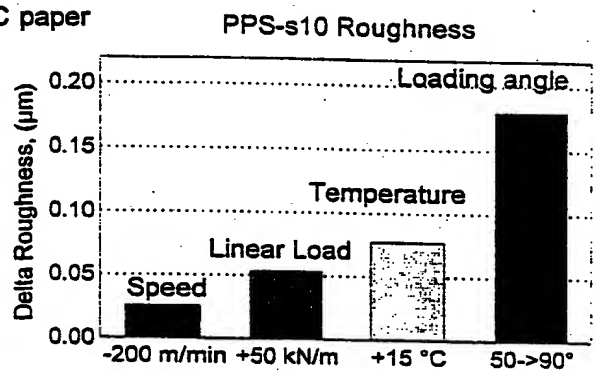
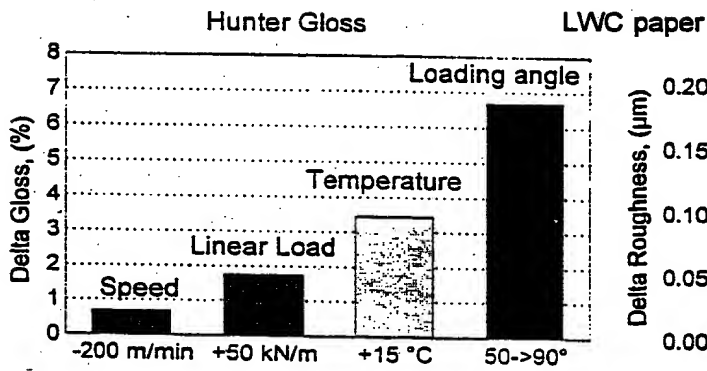


FIG. 3B

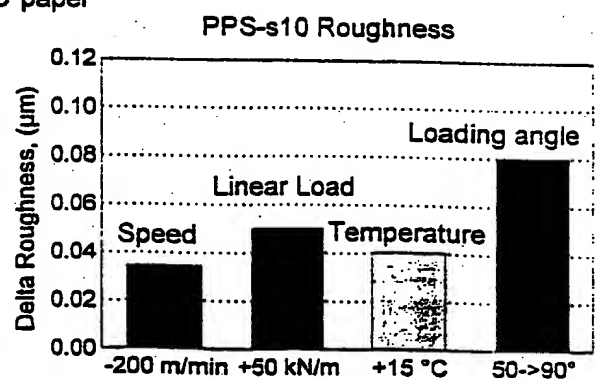
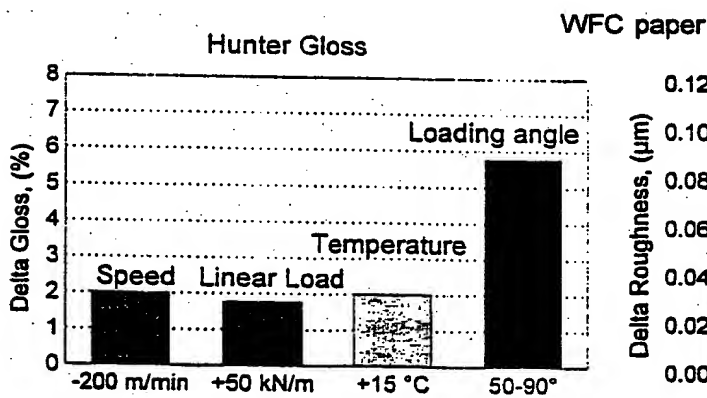


FIG. 3C

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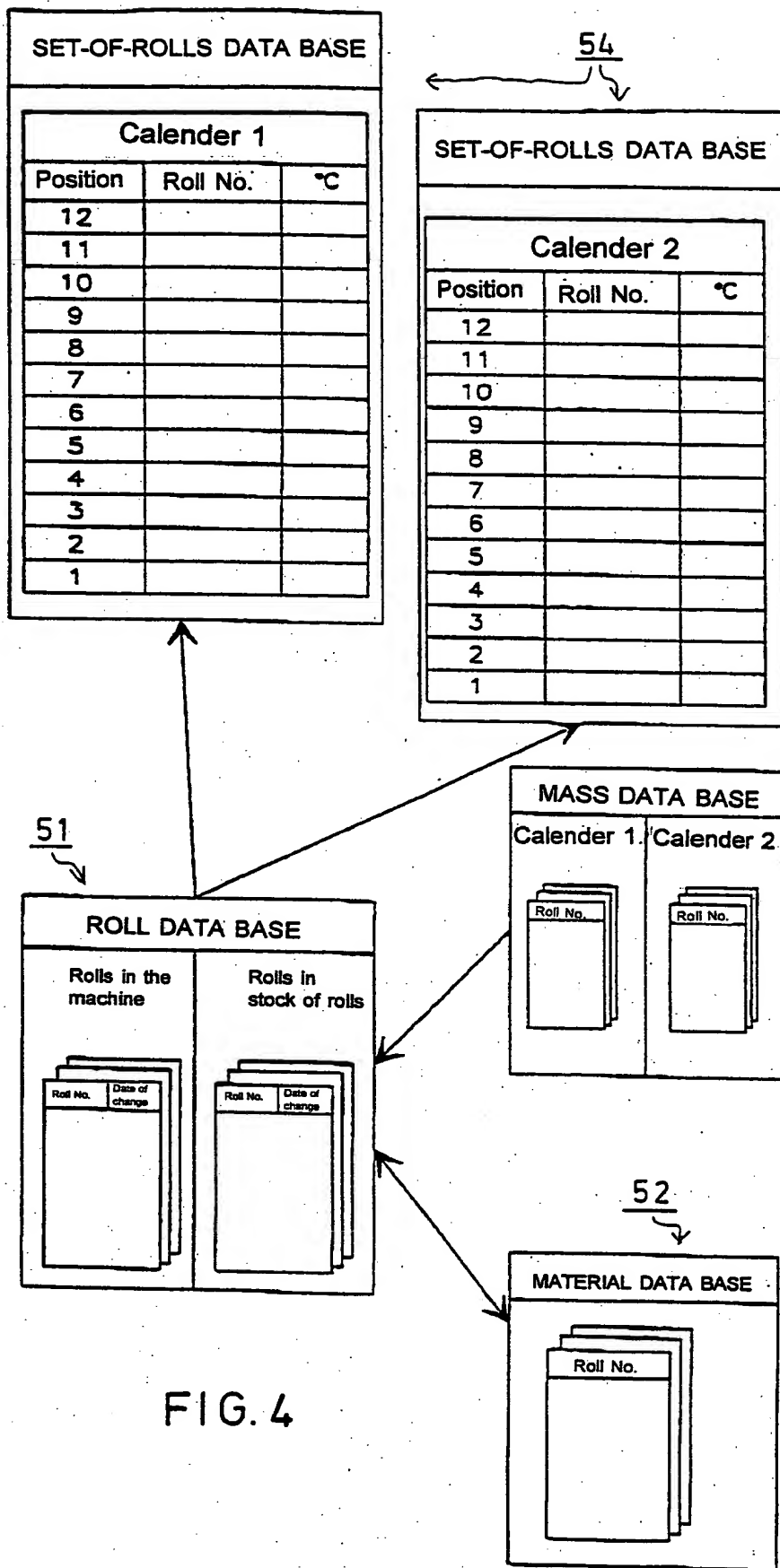


FIG. 4

Figure 1 is a schematic diagram of a multi-layered structure 100, showing four layers (111, 113, 114, 112) and their associated forces and moments. The diagram illustrates the interaction between the layers, including normal forces (N_{101} , N_{102} , N_{103}), shear forces (F_{tk1} , F_{tk2} , F_{tk3}), and moments (G_{tv1} , G_{tv2} , G_{tv3}). It also shows various coefficients (q_{aa} , q_{n2} , q_{yy}) and displacements (δ_1 , δ_2 , δ_3).

FIG. 5

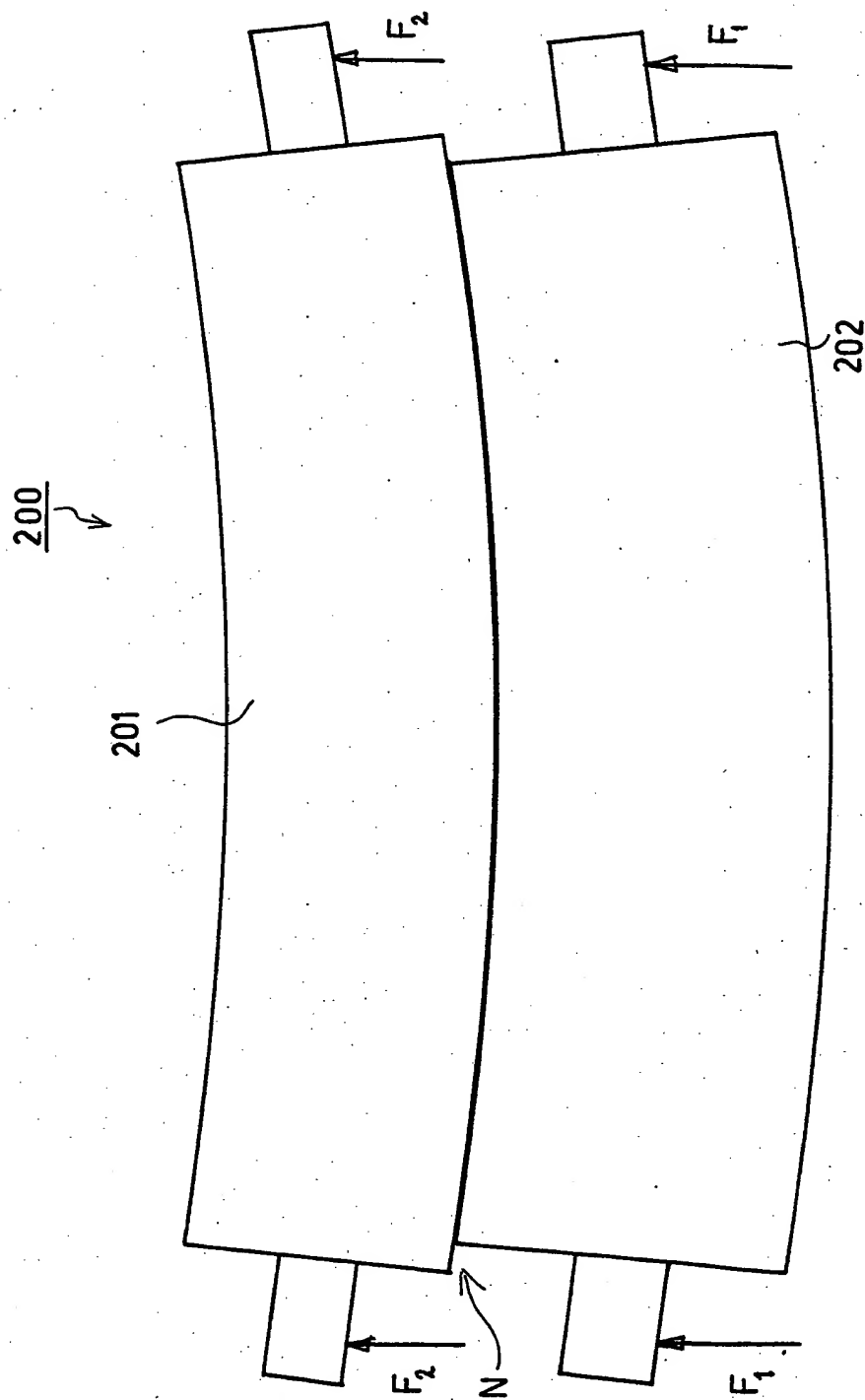


FIG. 6

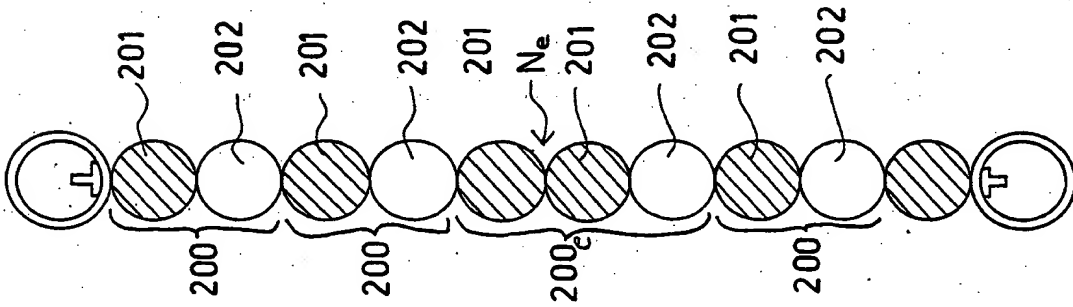


FIG. 7A

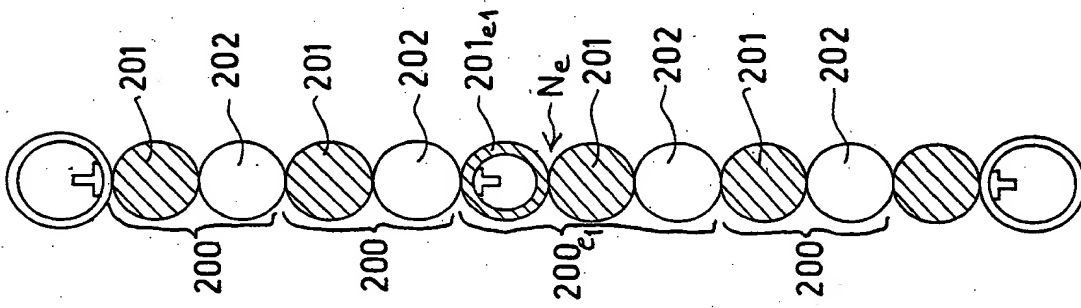


FIG. 7B

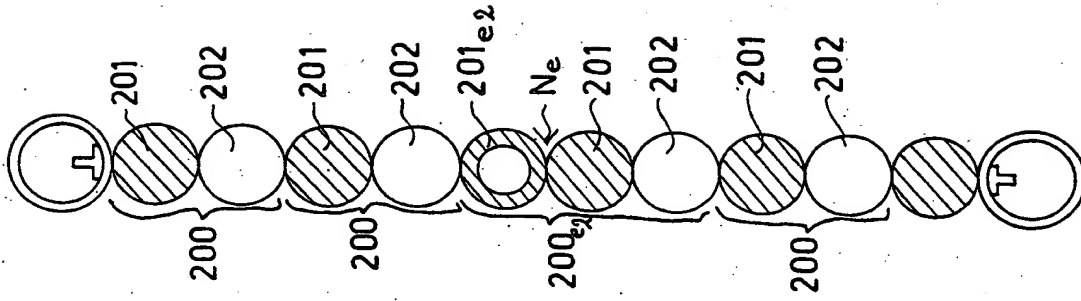


FIG. 7C

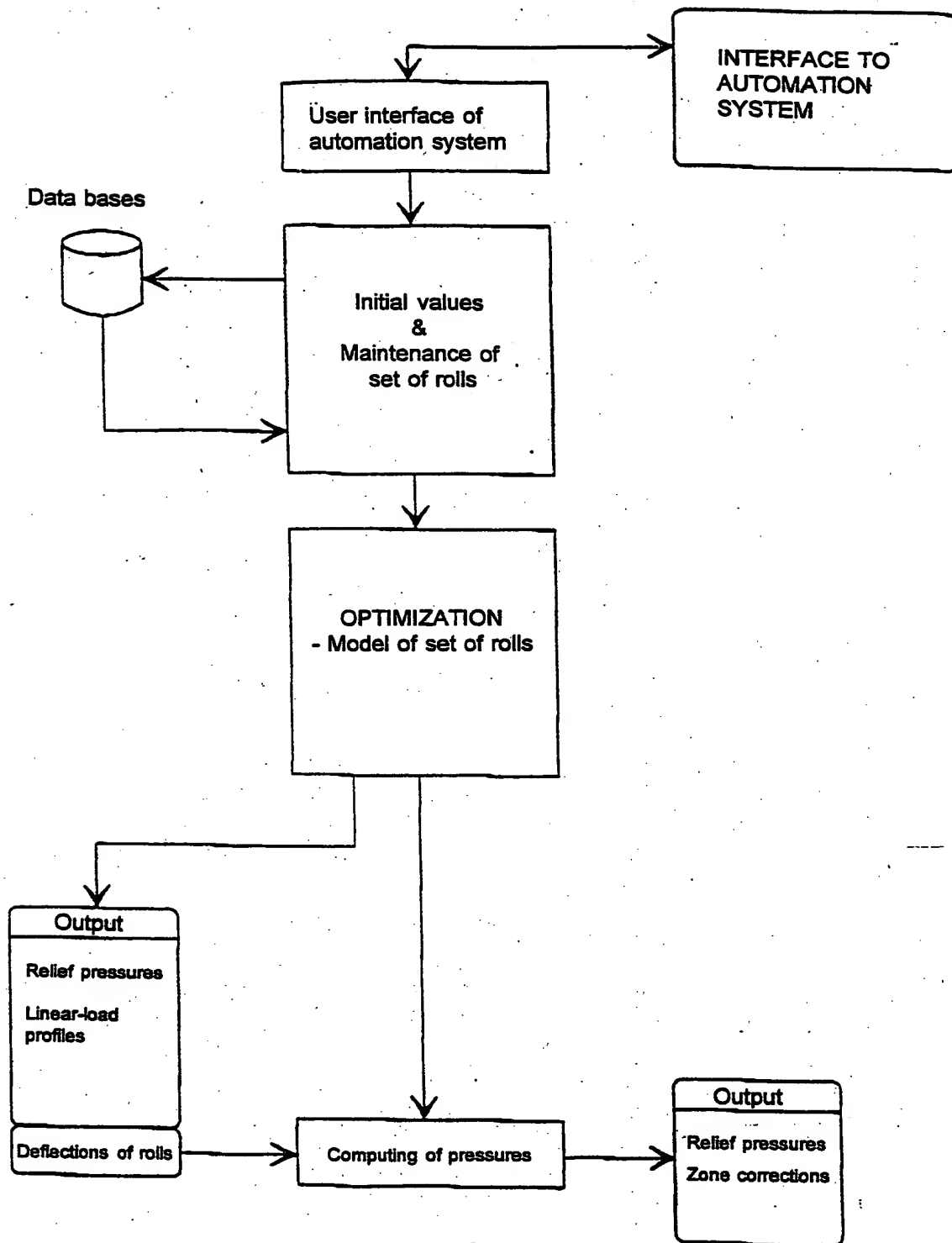


FIG. 8